

Moulding & Sons Landfill

**APPLICATION FOR PERMIT RENEWAL
TO OPERATE A CLASS VI LANDFILL
JUNE 2004**

RECEIVED

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UTAH DIVISION OF

SOLID & HAZARDOUS WASTE



WASATCH CIVIL
Consulting Engineering

5320 SOUTH 1950 WEST, SUITE 1
ROY CITY, UTAH 84067 (801) 775-9191

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Utah Class IV and VI Landfill Permit Application Form

Part I General Information

APPLICANT: PLEASE COMPLETE ALL SECTIONS.

I. Landfill Type	<input type="checkbox"/> Class IVa <input checked="" type="checkbox"/> Class VI	<input type="checkbox"/> Class IVb	II. Application Type	<input type="checkbox"/> New Application <input checked="" type="checkbox"/> Renewal Application	<input type="checkbox"/> Facility Expansion <input type="checkbox"/> Modification
-------------------------	--	------------------------------------	-----------------------------	---	--

For Renewal Applications, Facility Expansion Applications and Modifications Enter Current Permit Number 9812

III. Facility Name and Location

Legal Name of Facility <u>Moulding & Sons Construction</u>					
Site Address (street or directions to site) <u>910 West 21st Street</u>					County <u>Weber</u>
City <u>Ogden</u>	State <u>UT</u>	Zip Code <u>84401</u>	Telephone <u>801-399-9994</u>		
Township <u>6N</u>	Range <u>2W</u>	Section(s) <u>19, 30</u>	Quarter/Quarter Section		Quarter Section
Main Gate Latitude	degrees <u>41</u>	minutes <u>13</u>	seconds <u>49</u>	Longitude	degrees <u>111</u> minutes <u>59</u> seconds <u>46</u>

IV. Facility Owner(s) Information

Legal Name of Facility Owner <u>Moulding & Sons Construction</u>					
Address (mailing) <u>910 West 21st Street</u>					
City <u>Ogden</u>	State <u>UT</u>	Zip Code <u>84401</u>	Telephone <u>801-399-9994</u>		

V. Facility Operator(s) Information

Legal Name of Facility Operator <u>Moulding & Sons Construction</u>					
Address (mailing) <u>910 West 21st Street</u>					
City <u>Ogden</u>	State <u>UT</u>	Zip Code <u>84401</u>	Telephone <u>801-399-9994</u>		

VI. Property Owner(s) Information

Legal Name of Property Owner <u>Moulding & Sons Construction, Moulding Investments L.L.C.</u>					
Address (mailing) <u>910 West 21st Street</u>					
City <u>Ogden</u>	State <u>UT</u>	Zip Code <u>84401</u>	Telephone <u>801-399-9994</u>		

VII. Contact Information

Owner Contact <u>Randy Moulding</u>			Title <u>President, Moulding & Sons Construction</u>		
Address (mailing) <u>910 West 21st Street</u>					
City <u>Ogden</u>	State <u>UT</u>	Zip Code <u>84401</u>	Telephone <u>801-399-9994</u>		
Email Address			Alternative Telephone (cell or other)		
Operator Contact <u>(same as Owner Contact)</u>			Title		
Address (mailing)					
City	State <u>UT</u>	Zip Code	Telephone		
Email Address			Alternative Telephone (cell or other)		
Property Owner Contact <u>(same as Owner Contact)</u>			Title <u>President, Moulding Investments L.L.C.</u>		
Address (mailing)					
City	State <u>UT</u>	Zip Code	Telephone		
Email Address			Alternative Telephone (cell or other)		

Utah Class IV and VI Landfill Permit Application Form

Part I General Information (Continued)

VIII. Waste Types (check all that apply)

Waste Type	Combined Disposal Unit	Monofill Unit
<input checked="" type="checkbox"/> Construction & Demolition	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Tires	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/> Yard Waste	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Animals	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> PCB's (R315-315-7(3) only)	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Other	<input type="checkbox"/>	<input type="checkbox"/>

Note: Disposal of dead animals must be approved by the Executive Secretary

IX. Facility Area

Facility Area	58.6	acres
Disposal Area	52	acres
Design Capacity	5	
Years	5	
Cubic Yards	500,000	
Tons	285,000	

X. Fee and Application Documents

Indicate Documents Attached To This Application

<input checked="" type="checkbox"/> Facility Map or Maps	<input checked="" type="checkbox"/> Facility Legal Description	<input checked="" type="checkbox"/> Plan of Operation	<input checked="" type="checkbox"/> Waste Description
<input type="checkbox"/> Ground Water Report	<input checked="" type="checkbox"/> Closure Design	<input checked="" type="checkbox"/> Cost Estimates	<input checked="" type="checkbox"/> Financial

☒ Application Fee: Amount \$100.00

Class VI Special Requirements

☐ Documents required by UCA 19-6-108(9) and (10)

I HEREBY CERTIFY THAT THIS INFORMATION AND ALL ATTACHED PAGES ARE CORRECT AND COMPLETE.

Signature of Authorized Owner Representative

[Signature]
Name typed or printed
Randy Moulding

Title President Date 1-14-04

Address 910 W. 21st Street

Signature of Authorized Land Owner Representative (if applicable)

[Signature]
Name typed or printed
Randy Moulding

Title President Date 1-14-04

Address 910 W. 21st Street

Signature of Authorized Operator Representative (if applicable)

Name typed or printed

Title

Date

Address

Date

PART I - GENERAL DATA

This report (which includes the permit application, general data, general report, technical report, and appendices) is intended to meet the permit renewal requirements for a Class VI Landfill operated by Moulding & Sons, Weber County, Utah. This report is submitted to:

Dennis R. Downs, Director
Division of Solid and Hazardous Waste
Utah Department of Environmental Quality
P.O. Box 144880
Salt Lake City, UT 84114-4880

GENERAL DATA

NAME OF FACILITY:	Moulding & Sons
SITE LOCATION:	North ½ of Sect. 30 and the South ½ of Sect. 19, T6N, R2W, SLBM
FACILITY OWNERS:	Moulding & Sons Construction
PROPERTY OWNER:	Moulding & Sons Construction Moulding Investments L.L.C.
FACILITY OPERATOR:	Moulding & Sons Construction
CONTACT PERSON:	Randy Moulding
Address:	910 West 21 st Street Ogden, UT 84401
Telephone	(801) 399-9994

TYPE OF FACILITY:

 Non-Commercial

XX Commercial

 Initial Application

XX Permit Renewal

Original Permit Number 9812

PROPERTY OWNERSHIP:

XX Presently owned by applicant

 To be purchased by applicant

XX To be leased by applicant

CERTIFICATION OF SUBMITTED INFORMATION

Official: Randy Moulding

Title: President, Moulding & Sons Construction

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violation.

Signature: Randy Moulding Date: 6-11-04

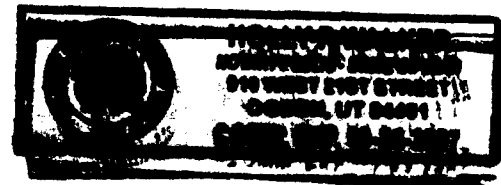
SUBSCRIBED AND SWORN to before this 6th day of June, 2004

My commission expires on the 24th day of Oct, 2007

[Signature]

Notary Public in and for

Wasatch County, Utah



(SEAL)

PART II - GENERAL REPORT

1.0 INTRODUCTION

1.1 GENERAL DESCRIPTION OF FACILITY (R315-310- 3(1)(b))

The Moulding & Sons Landfill is located at 910 West 21st Street Ogden City, Utah. The entrance is from 21st Street at the southeast corner of the facility. The facility is located along the boundary between Ogden City and West Haven City, and the facility occupies areas in both cities. Maps showing the facility location and general layout are included in Appendix A.

The Moulding & Sons Landfill accepts construction/demolition waste, yard waste, and inert waste. Some of the waste brought to the site is recycled for use as construction materials. The disposal site is divided into areas for stockpiles of recyclable materials and disposal of non-recyclable materials.

1.2 LEGAL DESCRIPTION OF THE FACILITY (R315-310- 3(1)(c))

Property Serial numbers and acreage are given in Table 1-1. Legal descriptions for each parcel are included in Appendix B.

TABLE 1-1. FACILITY PROPERTY PARCELS

Property Serial Number	Owner	Size (acres)
12-102-0013	Moulding & Sons Construction	9.23
14-012-0001	Moulding Investments L.L.C.	6.73
14-012-0002	Moulding & Sons Construction	21.37
14-012-0003	Moulding Investments L.L.C.	7.24
14-012-0006	Moulding & Sons Construction	4.07
14-100-0020	Moulding Investments L.L.C.	9.93
Total		58.57

1.3 LAND USE AGREEMENT (R315-310- 3(1)(c))

The landfill property is owned by Moulding & Sons Construction and Moulding Investments L.L.C. Moulding & Sons Construction has been granted by agreement use of the parcels owned by Moulding Investments L.L.C. for use as a landfill. Under the terms of this agreement, Moulding & Sons Construction has sole responsibility for the maintenance and operation of the landfill facility. A copy of the agreement between Moulding & Sons Construction and Moulding Investments, L.L.C. is included in Appendix B.

1.4 WASTE TYPE AND VOLUME (R315-310- 3(1)(d))

Waste stored and disposed of at this facility is construction/demolition waste, yard waste, and inert waste complying with R315-301-2(7). The majority of the accepted waste materials include, but are not limited to, soil, concrete, asphalt, building demolition materials, and metal (i.e.: rebar, steel beams, general building debris). Excluded wastes include, but are not limited to, industrial waste, liquids, sewage sludge, hazardous materials, household waste, commercial waste, contaminated soils, grease, waste oils, dead animals and tires.

Almost all of the waste accepted at this facility is generated at construction and demolition projects located within a 30-mile radius of the Moulding and Sons Landfill. The area served by the landfill includes Weber County, Davis County, and portions of Box Elder County. Records indicate the facility receives between 100,000 and 200,000 cubic yards of waste material per year.

1.5 LOCATION STANDARDS (R315-310- 4(1))

This landfill is an existing facility and is not subject to the location standards given in R315-305-4 and R315-302-1.

2.0 PLAN OF OPERATION

2.1 SCHEDULE OF CONSTRUCTION (R315-302- 2(2)(a))

The landfill is an existing facility and all basic components of the facility have been constructed. On-going construction activities include placing and grading waste materials, placing the cover material, and construction of temporary runoff control facilities as needed.

2.2 DESCRIPTION OF ON-SITE WASTE HANDLING PROCEDURES (R315-302- 2(2)(b) and R315-310- 3(1)(f))

Waste materials are delivered through an access gate near the southeast corner of the facility. This gate is open only during business hours when landfill employees are present. All trucks entering the facility must report to the site attendant at the facility office to receive approval and instructions for unloading waste materials. The facility attendant observes the waste material for conformance with regulations, estimates the quantity of incoming waste, and directs trucks to the proper areas for unloading. Waste unloading operations are observed by two Moulding and Sons employees, the loader operator and the monitoring attendant. The monitoring attendant observes all waste to assure that no hazardous waste or non-conforming waste materials are deposited in the landfill. Waste materials are pushed up the fill slope with a loader, compacted, and covered with soil as appropriate. Soil cover material is obtained from either acceptable waste materials delivered to the site or from an on-site borrow area located at the eastern side of the facility.

Waste has historically been placed using the area fill method of disposal in a continuous fill moving west to east within the boundaries of the waste disposal area. A flat, elevated pad extending from the main facility access roadway has been built up over time. This elevated pad is currently the active area for waste disposal, and the east facing fill slope extends from this pad. Waste accepted for disposal is compacted on the east-facing slope, resulting in a fill surface that progresses eastward.

When waste fill in the northern portion of the site approaches the maximum waste elevation, waste placement will then progress toward the south side of the disposal area. Site operations will continue utilizing the area fill method of disposal. The existing upper access road will provide site access for future disposal areas once facility operations are completed in the western portion of the site and are relocated to the east.

2.3 SCHEDULE OF INSPECTIONS AND MONITORING (R315-302-2(2)(c) and R315-310- 3(1)(g))

The monitoring attendant will conduct daily site inspections for litter, scattered paper, and other lightweight debris and trash. All recovered waste will be returned to the active fill area for proper disposal.

Quarterly site inspections of the landfill facility will be performed and will include a visual inspection of drainage systems, fill surfaces, perimeter fencing, equipment and structures.

Quarterly inspection reports will be entered into the operating record of the facility. The form used for recording observations made during inspection is provided in Appendix C. Any deficiencies noted during inspections will be corrected as soon as practical.

2.4 CONTINGENCY PLANS IN THE EVENT OF FIRE OR EXPLOSION (R315-302- 2(2)(d))

Risk of a fire or explosion at this landfill is minimized by the types of waste materials accepted and by covering waste materials promptly. Risk of explosive gases are minimized by not allowing the disposal of decomposable waste such as household, restaurant, and food processing wastes. Combustible materials are covered with at least 6 inches of soil. Employees are prepared to provide immediate fire suppression in the event of a waste fire. Fire suppression will be accomplished by means of earth moving equipment when possible.

In the event of a fire that cannot be managed by on-site personnel, the Weber County Fire Department will be contacted. The nearest Fire Station is located in Central Ogden approximately 3 miles from the landfill. Fire Department response time to the landfill is estimated to be approximately 10 minutes. On arrival at the facility, Fire Department personnel will assume responsibility for fire abatement activities.

2.5 CORRECTIVE ACTION PROGRAMS FOR GROUND WATER CONTAMINATION (R315-302- 2(2)(e))

The possibility of ground water contamination is minimal because disposal of hazardous materials is not permitted at this facility. In the unlikely event that ground water does become contaminated, Moulding & Sons will retain a qualified professional to define the extent of the problem, develop a plan for corrective action, and implement the plan. The Utah Division of Solid and Hazardous Waste will be notified if ground water contamination is observed or suspected.

2.6 CONTINGENCY PLANS FOR OTHER RELEASES (R315-302- 2(2)(f))

General emergency operations plans have been developed for Ogden City and West Haven City. In addition, the County Sheriff maintains a hazardous materials response plan. It is anticipated that one of these plans will be invoked by County personnel if the severity of an event at the landfill facility requires the participation of an emergency response team.

The Weber County Fire Department will be notified and will act as the first response team in the event of hazardous or toxic material discharges at the Moulding Landfill. On arrival at the facility, the fire department will assume responsibility for subsequent activities related

to the safe handling of the discharged material. Landfill personnel will not handle hazardous material spills, except under the direct supervision of the Fire Department or the emergency management team. The landfill attendant will ensure the safe evacuation of all employees and the public. Advanced planning of emergency exit routes will be the responsibility of the facility operator. All employees will be regularly apprized of established primary and secondary exit routes.

The runoff containment system consists of storm water retention facilities that are located along the edge of the waste disposal area and at low points within the landfill facility. The only potential failure of the runoff containment system is overtopping of the storm water retention areas. Due to the topography of the site and the location of the storm water retention facilities, overtopping of the storm water retention facilities would cause only a limited release of storm water from the facility. Storm water retention facilities will still function and retain the majority of the runoff and silt even if overtopped. It is anticipated that no immediate response will be required if the storm water retention areas are overtopped. Repair of runoff containment facilities damaged due to erosion or other causes will be accomplished as soon as practical.

Waste materials that may be transported by the wind will be covered daily. The site will be frequently monitored for litter, and any litter that is observed will be collected and covered.

2.7 PLAN TO CONTROL FUGITIVE DUST AND COVERING OF WASTE (R315-302- 2(2)(F))

Dust control is accomplished using a water truck as needed to wet areas that could generate dust. A brine solution for dust control is also used as needed. Areas where the water truck are used include waste unloading areas and the facility access road.

2.8 DESCRIPTION OF MAINTENANCE OF INSTALLED EQUIPMENT (R315-302- 2(2)h))

This facility does not contain a leachate collection system, gas collection system, groundwater monitoring equipment, or any other installed equipment.

2.9 PROCEDURES FOR EXCLUDING THE RECEIPT OF HAZARDOUS OR PCB WASTE (R315-302- 2(2)(i))

Hazardous materials or materials containing PCB's will be excluded from this facility by observation of each load of waste delivered to the facility, random detailed load inspections, training of facility personnel, and proper removal and disposal of any suspect materials.

Each incoming load will be visually inspected by the landfill attendant to identify the nature of the waste intended for disposal and to estimate the total volume of the load. If primary load inspections reveal the presence of regulated quantities of hazardous or PCB wastes on incoming haul vehicles, the landfill attendant will refuse to accept the load and UDEQ will be notified.

Incoming loads will be randomly selected for a more detailed inspection by the landfill attendant who will be trained and qualified to identify regulated hazardous waste or PCB waste. Selected loads will be discharged near the active disposal area, spread with a dozer, and inspected for free liquids and hazardous or PCB wastes. Load inspections and decisions determining whether a suspected material can be accepted for disposal will be made according to the following procedure:

- The waste will be unloaded in an area near, but not immediately adjacent to, the active area for waste disposal.
- The hauler will be required to wait in the unload area until the content of the load is verified.
- The waste will be spread for observation using a dozer or front end loader.
- Containers with contents that are not easily identifiable, such as unmarked 55-gallon drums, will be separated if a visual inspection determines that movement will not cause the drum to rupture, and will be opened and inspected only by the properly trained personnel.
- If the waste is determined to be acceptable, it will be transferred to the active area for disposal.

Suspected hazardous or PCB wastes will be tested to identify the waste material. Until proven otherwise, wastes that are suspected of being hazardous will be handled and stored as a hazardous waste.

If regulated quantities of hazardous or PCB wastes are identified during secondary load checks, random inspections, or at any other time the Weber County Fire Department will be notified. Moulding Landfill will identify and contact the waste hauler if possible. The Weber County Fire Department, acting as the first responder for hazardous materials, will implement their Hazardous Materials Response Plan. Any subsequent activities related to the waste load, including transportation, storage, and containment will be managed by the Weber County Fire Department. Landfill personnel will participate in these activities only as directed by the Weber County Fire Department. Following notification, it will be the

responsibility of the Fire Department to ensure that the hazardous materials are handled, stored, or transported in accordance with applicable federal and state regulations.

In the event that PCB wastes are identified on-site, the Weber County Fire Department or Moulding Landfill personnel will temporarily store and ensure disposal of the waste as required by 40 CFR Part 761, while completing the following activities:

- Obtain an EPA PCB identification number
- Properly store the waste until transport
- Properly label the waste containers
- Manifest containers and arrange shipment to a permitted disposal facility

If waste is transported off-site by a hazardous waste disposal company, a provisional or one-time U.S. EPA identification number will be obtained, the waste will be packaged according to applicable Department of Transportation regulations, and the container will be properly transported and manifested to its point of destination. Proper chain of custody and manifest documents will be obtained from the hazardous materials disposal facility in order to maintain compliance with all applicable federal and state regulations.

The landfill operator will notify UDEQ within 24 hours if suspected hazardous materials or PCB wastes are discovered at the landfill. A record of notification will be submitted to UDEQ which identifies the date and time of discovery, type of material (if possible without analytical testing), probable hauler, an estimate of the quantity of material, and actions proposed for the removal of the material from the area of discovery. The record of notification will be entered into the operating record maintained at the facility.

2.10 PROCEDURES FOR CONTROLLING DISEASE VECTORS (R315-302- 2(2)(j))

The landfill will be operated in a manner which does not create odors, unsightliness, and other nuisances. The working face will be kept as narrow as possible while remaining consistent with safe and efficient equipment operation. Bulky waste material will not be used for the final surface side slopes. During construction of each disposal cell, waste will be spread into layers and compacted (if possible) by appropriately sized equipment. The equipment will make a minimum of two passes over each waste layer.

Pursuant to UAC R315-303-(4), a minimum of six inches of compacted earthen material will be used to cover the solid waste at a frequency which is sufficient to prevent the

uncontrolled migration of fires. Cover material will be spread over the exposed waste surface no less than once per week. If necessary, waste will be covered more frequently to control disease vectors, fires, odors, and litter. If a fill surface other than a final fill surface is not expected to receive waste for a period of time in excess of 90 days, an intermediate cover will be placed on that surface. The integrity of daily and intermediate cover will be maintained until filling is resumed or final cover is constructed. Routine visual inspections of the cover material will be made, and all erosion surfaces, cracks, and depressions will be repaired as soon as is practicable. Both daily and intermediate cover will be uniformly graded to promote drainage of surface water; all slopes will have a grade of not less than three percent.

Appropriate control and prevention of disease vectors at the Moulding Landfill will be used for the protection of public health and safety. Control and prevention will be accomplished using techniques appropriate for the protection of public health and safety and the environment. Compaction and grading of waste will prevent vector harborage in the waste mass. Cover material will be applied to the working face at least once each week. These waste management practices will minimize exposure of wastes to potential disease vectors by reducing available entry space, food sources, and nesting locations. Rodent populations will also be controlled by the use of poisons, smoke devices, or sonar techniques, if necessary.

Insect breeding areas, which may develop in areas of stagnant water will be addressed as discovered. The presence of standing water at the facility will be minimized through the uniform grading of fill surfaces and the installation of a drainage control system. The accumulation of fluids in the waste mass will be minimized by the restriction of liquid wastes accepted at the landfill. If insect infestations occur in spite of these measures, approved insecticidal sprays or other methods may be employed.

2.11 PLAN FOR ALTERNATIVE WASTE HANDLING (R315-302- 2(2)(k))

Conditions that would prevent this facility from accepting waste are unlikely because the equipment required to operate the landfill are typical construction equipment consisting of a loader, dozer, and water truck. At least one extra loader is kept on site in case of breakdown. In the event of an equipment breakdown which cannot be repaired by Moulding & Sons, a commercial repair facility will be contacted. Backup equipment will be provided by the landfill operator within 24 hours if necessary. Additionally, auxiliary equipment may be leased from a private contractor as required, or borrowed from other business operations.

In the unlikely event that short term closure of the landfill is necessary, several options are available. Waste haulers may be temporarily diverted to the Box Elder County Landfill or the Wasatch Energy Systems Landfill in Davis County. In the event that the landfill is unable to accept waste for an extended period of time, the same aforementioned facilities may be used.

2.12 GENERAL TRAINING AND SAFETY PLAN FOR SITE OPERATIONS (R315-302- 2(2)(n))

Personnel will receive training in landfill operations. Training of landfill personnel will be a continuing process including landfill operations, recognition of prohibited waste, basic first aid, and safety training. Basic safety and first aid training will be conducted on an annual basis. At least one employee with CPR and first aid training will be available during all operating hours.

2.13 RECYCLING PROGRAM (R315-302- 2(2)(n))

The facility is used for both storage of recyclable materials and disposal of non-recyclable materials. Recyclable materials delivered to the site include soil, concrete, and asphalt paving materials. The asphalt and concrete materials are stored until needed and then crushed for use as construction materials.

PART III TECHNICAL REPORT

3.0 MAPS

See the attached maps in Appendix A.

4.0 ENGINEERING REPORT

4.1 CELL DESIGN AND FILL METHODS (R315-310- 3(1)(b))

This facility is located on six parcels totaling approximately 58 acres. The waste disposal area will eventually occupy approximately 90% of the total area. The shape of the landfill cell is irregular and approximately parallels the outside boundaries of the facility property.

The maximum design fill elevation for the landfill is elevation 4328, which is approximately 50 feet above the natural ground surface. The top of the landfill is designed at a relatively flat slope of 2%, and slopes outward from a center ridge line toward the outer edges of the landfill embankment. The edges of the landfill are sloped at an average of 3H:1V and are terraced to promote slope stability and minimize erosion. Terraces on the outer landfill slopes are 10 to 15 feet wide and located every 10 vertical feet. The outside slopes of the landfill slope to a runoff control ditch at the toe of the slope.

Waste has historically been placed using the area fill method of disposal in a continuous fill moving west to east within the boundaries of the waste disposal area. A flat, elevated pad extending from the main facility access roadway has been built up over time. This elevated pad is currently the active area for waste disposal, and the east facing fill slope extends upward from this pad. The fill slope is kept at an angle that minimizes the area working face while allowing the safe operation of equipment on the slope. Waste accepted for disposal is compacted on the east-facing slope, resulting in a fill surface that progresses eastward.

When waste fill in the northern portion of the site approaches the maximum waste elevation, waste placement will then progress toward the south side of the disposal area. Site operations will continue utilizing the area fill method of disposal. The existing upper access road will provide site access for future disposal areas once facility operations are completed in the western portion of the site and are relocated to the east.

4.2 DESIGN AND LOCATION OF RUN-ON AND RUN-OFF CONTROL SYSTEMS (R315-310-5(2)(b))

The runoff-off control systems for the Moulding and Sons Landfill have been designed to retain the storm water runoff resulting from a 25-year, 24-hour storm event during the active, closure, and post-closure periods for this facility. During the period of active waste disposal, the application of daily and intermediate cover over the waste will minimize the volume of water that may contact waste materials during precipitation events. Temporary berms and ditches will be constructed as needed around the active disposal area to contain runoff-flows and to prevent runoff from other areas of the site from entering the active disposal areas. Runoff controls for the closure and post-closure periods will consist of a perimeter ditch that will retain runoff and also direct runoff to additional storm water detention areas.

Potential runoff volumes were calculated for the landfill site using the 25-year, 24-hour storm and the National Resource Conservation Service (NRCS) curve number methodology. Calculations are provided in Appendix D. Results indicate that the potential runoff volume for the bare soil condition is 0.11 acre-feet per acre or 6.4 acre-feet for the entire site. When the final closure is constructed and vegetation is established on the landfill area, the runoff volume decreases to 0.021 acre-feet per acre or 1.2 acre-feet for the entire site.

Storm water run-on is controlled by the natural topography of the site and by the barrier created by 21st Street. The landfill facility is located between the Department of Natural Resources (DNR) Pond, the Weber River, the Ogden River, and 21st Street. The natural drainage pattern is toward the Weber and Ogden Rivers and toward the DNR Pond. Storm drainage from the area south of the landfill is blocked and directed west toward the Weber River by 21st Street, which is elevated 5 to 15 feet above the natural ground surface.

5.0 CLOSURE PLAN

5.1 CLOSURE SCHEDULE (R315-310- 4(2)(d)(i))

At least 60 days before the projected final receipt of waste, Moulding and Sons will notify the Executive Secretary that placement of the soil cover for the closure is on-going and will continue as areas of the landfill reach final grades.

5.2 DESIGN OF FINAL CLOSURE (R315-310- 4(2)(c)(iii) and R315-305-5(5))

At final closure, the landfill will be closed as per applicable requirements with the State of Utah, Weber County, West Haven City, and Ogden City. The final cover will be constructed in accordance with R315-303-4, and will consist of 2 feet of soil. Of these 2 feet, the upper 6 inches will be topsoil or other suitable soil which is capable of sustaining plant growth. The final cover will consist of native plants and grasses according to a plan developed or recommended by a representative of the U.S. Department of Agriculture, Natural Resource Conservation Service (NRCS). Prior to placing the final cover layer, the waste will be graded and leveled to create a smoothly contoured area.

The final cover will consist of a layer of soil at least 2 feet thick over the top of the waste. The upper 6 inches of the soil layer will consist of topsoil. The final cover will be seeded with shallow rooted vegetation and a seed mix similar to native grasses. Final grading contours and a typical cross section are shown on the attached drawings in Appendix A.

5.3 CAPACITY OF SITE IN VOLUME AND TONNAGE (R315-310-4(2)(d)(ii))

The waste disposal area for the landfill is approximately 52 acres. The remaining volume required to reach final design elevations is estimated by Molding and Sons to be approximately 500,000 cubic yards. Density of the waste materials delivered to the site varies considerably depending upon the type of material. For example, concrete waste materials have a density many times greater than wood and other building materials from construction demolition. Moulding and Sons has estimated an average density of approximately 0.4 tons per cubic yard using measured weights and volumes for typical loads of loose waste material delivered to the site by dump trucks and waste bins. Assuming that the volume is reduced an additional 30% by compaction and consolidation, the final in-place average density is approximately 0.57 tons per cubic yard. At this in-place density, 500,000 cubic yards equates to approximately 285,000 tons. With remaining cell capacity of approximately 500,000 cubic yards and average waste deliveries of approximately 100,000 cubic yards per year, it is anticipated that the landfill will reach design capacity in 4 to 5 years.

5.4 FINAL INSPECTION BY REGULATORY AGENCIES (R315-310-4(2)(d)(iii))

Final closure of the facility will be conducted as per regulation R315-302-3(4)). This will include notification to the Executive Secretary that closure of this facility is intended as well as notification and appropriate documentation that closure has been completed. Notification will also be given to any other agency entity as required (i.e. Weber County Environmental Health Department, Ogden City, and West Haven City).

6.0 POST-CLOSURE CARE PLAN (R315-310-3(1)(h))

6.1 SITE MONITORING (R315-310- 4(2)(e))

Groundwater and surface water monitoring and site monitoring for landfill gases are not required for a Class VI landfill. Site monitoring associated with maintenance of cover material, vegetation, and runoff control facilities are discussed in Section 6.3.

6.2 CHANGES TO RECORD OF TITLE, LAND USE, AND ZONING RESTRICTIONS (R315-310- 4(2)(e)(ii))

Upon closure, "plats and a statement of fact" concerning this facility will be recorded as a part of the record of title with the Weber County Recorder. At the time of closure a determination will be made if changes to the title, land use and zoning are required. If such action is deemed necessary, steps will be taken to assure proper compliance with appropriate regulations.

6.3 MAINTENANCE ACTIVITIES TO MAINTAIN COVER AND RUN-ON/RUN-OFF CONTROL SYSTEMS (R315-310- 4(2)(e)(iii))

Maintenance activities to maintain the cover and runoff control systems will include semi-annual inspections to assess the condition of the landfill cover material, vegetation, and runoff control facilities. Any areas of erosion or significant settlement will be repaired and the area re-seeded. Maintenance of the runoff control facilities may include cleaning out the drainage/sump ditches to maintain sufficient storage volume. Due to the topography of the site, run-on control facilities are not needed.

6.4 POST CLOSURE CARE - CONTACT PERSON OR OFFICE (R315-310-4(2)(e)(iv))

Any questions or concerns during the post-closure care period should be directed to:

Moulding & Sons
910 West 21st Street
Ogden, UT 84401
(801) 399-9994

7.0 FINANCIAL ASSURANCE

7.1 CLOSURE COSTS (R315-310- 4(2)(d)(iv))

The closure cost estimate includes the cost to complete necessary engineering requirements, project management, placement of the cover material, and establishing vegetation on the landfill area. The cost estimate has been prepared as outlined by the Utah State Solid Waste Permitting and Management Rules and is based upon the assumption that an outside contractor will perform the construction tasks. Material and labor quantities are lower in the current closure cost estimate than in the previous closure cost estimate (1998 Permit Application) because more than 20% of the cover material has now been placed and graded. A five percent contingency has been built into the final estimate to account for variances in unit costs and any possible unforeseen circumstances. A detailed cost estimate is presented in Table 7-1.

TABLE 7-1. COST ESTIMATE FOR CLOSURE CONSTRUCTION

Item No.	Description	Quantity	Units	Unit Cost	Cost
1	Topographic Survey	20	HRS	\$130	\$2,600
2	Contract Admin., Bidding and Award	1	LS	\$2,000	\$2,000
3	Project Management/CQA	40	HRS	\$45	\$1,800
5	Water Truck	60	HRS	\$60	\$3,600
6	On-site Final Cover Soil Acquisition	80,000	CY	\$0.88	\$70,400
7	Final Cover Placement	80,000	CY	\$0.22	\$17,600
8	Revegetation	50	AC	\$340	\$17,000
9	Subtotal				\$115,000
10	Bonding Fee 1.5%				\$1,725
11	Contingency 5%				\$5,750
12	Total				\$122,475

7.2 POST-CLOSURE CARE COSTS (R315-310- 4(2)(e)(iv))

Ground water monitoring, surface water monitoring, and leachate collection and treatment is not required at this facility. Post-closure care for this facility will include semi-annual inspection of the facility for the duration of the post-closure period (30 years). The semi-annual inspection will examine the final cover and drainage system for the effects of erosion, subsidence, settlement, or any other deficiency which may compromise the integrity of the final cover or the effectiveness of the drainage system. Fences and gates will also be observed for deficiencies that might contribute to unauthorized access to the site. Any deficiencies observed during the semi-annual inspections will be repaired as soon as practical. A cost estimate for post-closure care is given in Table 7-2.

TABLE 7-2. COST ESTIMATE COST ESTIMATE FOR POST-CLOSURE CARE

Item No.	Description	Quantity	Units	Unit Cost	Cost
1	Site Inspections and Record Keeping	60	HRS	\$25	\$1,500
2	Correctional Plans and Specifications	10	HRS	\$75	\$750
3	Maintenance Construction	30	HRS	\$60	\$1,800
4	Subtotal				\$4,050
5	Contingency 5%				\$203
6	Total				\$4,253

7.3 FINANCIAL ASSURANCE (R315-309-1(1))

Moulding & Sons has obtained a Solid Waste Permitting and Management Bond as approved by the Utah Division of Solid and Hazardous Waste. Insurance Company of the West is the underwriter of this bond. A copy of the bond is included in Appendix C.

APPENDIX A

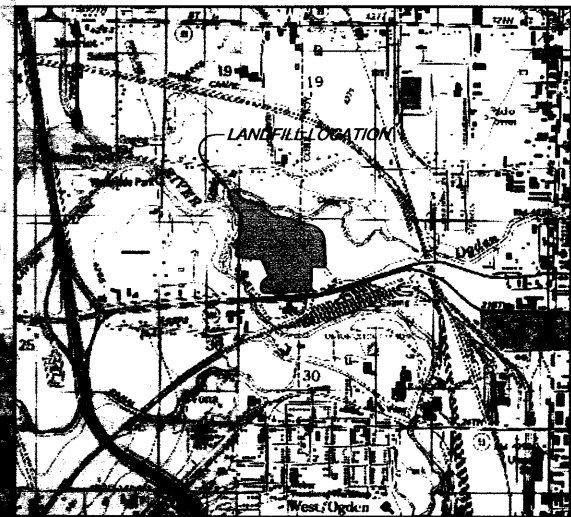
MAPS AND DRAWINGS

LEGEND

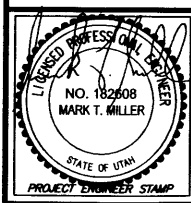
- EXISTING STORM WATER RETENTION AREA
- EXISTING ACTIVE DISPOSAL AREA
- EXISTING ACCESS ROAD
- FACILITY BOUNDARY

NOTE:

BOUNDARIES OF STORM WATER RETENTION AREAS AND THE ACTIVE WASTE DISPOSAL AREAS WILL BE ADJUSTED AS NECESSARY TO ACCOMMODATE LANDFILL OPERATIONS.



LOCATION MAP



WC
WASATCH CIVIL
Consulting Engineering
5320 SOUTH 1950 WEST, SUITE 1
ROY CITY, UTAH 84067 (801) 775-9191

REV.	DATE	APPR.

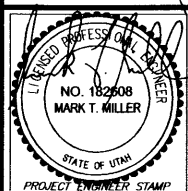
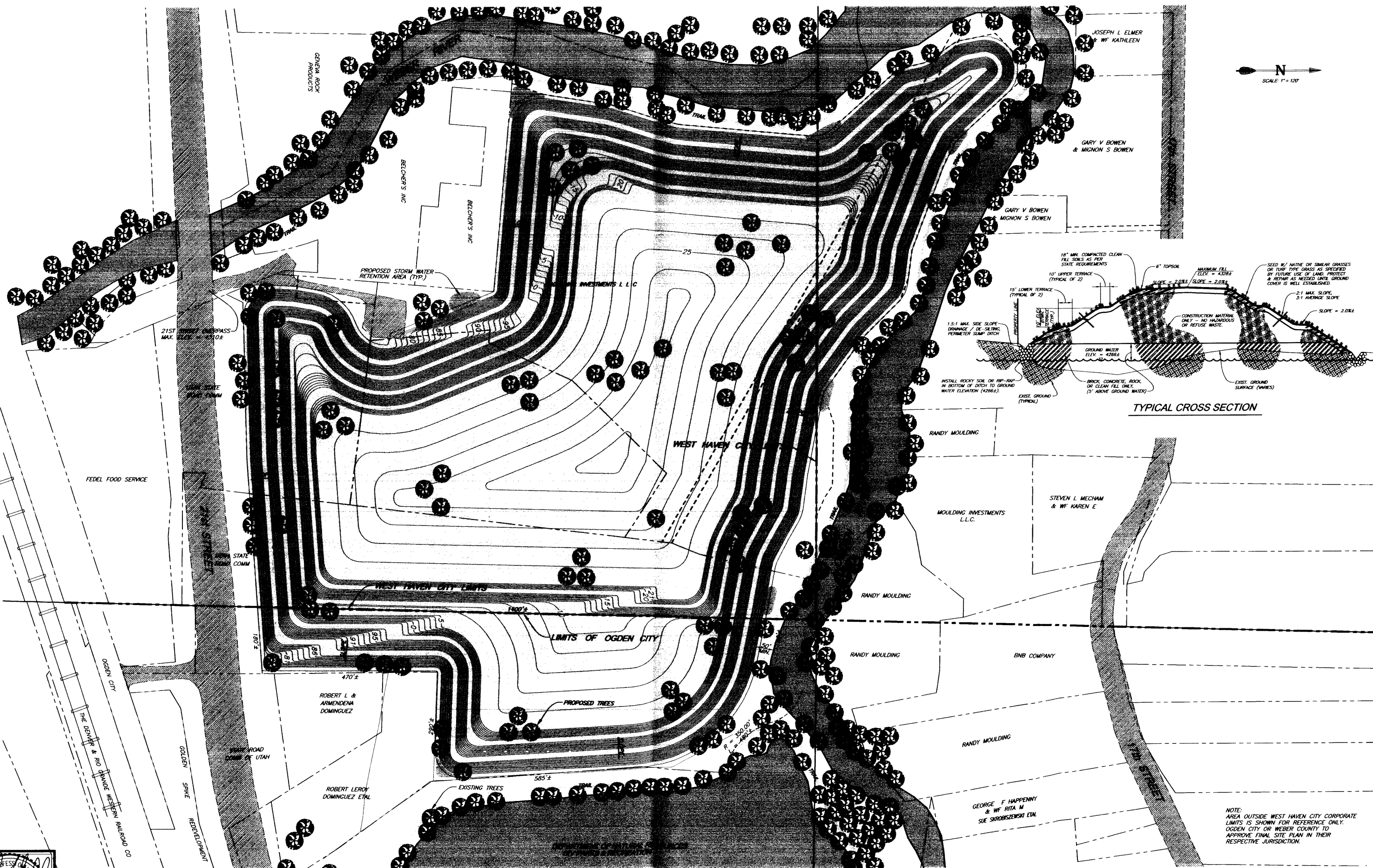
DESIGNED J.D.B. DATE DEC. 29, 2003
DRAWN G.B.D. SCALE: 1" = 400'
CHECKED M.T.M.

MOULDING & SONS
CLASS VI LANDFILL

EXISTING SITE

WC-CAD\05-MISC\MOULDING LANDFILL\DWG\EXISTING SITE.DWG

WC-CAD\07-MISC\MOULDING LANDFILL\DWG\COLOR PRESENTATION WH.DWG



WASATCH CIVIL
Consulting Engineering
5320 SOUTH 1950 WEST, SUITE 1
ROY CITY, UTAH 84067 (801) 775-9191

REV.	DATE	APPR.

DESIGNED J.D.B. DATE DEC. 28, 2003
DRAWN G.B.D. SCALE: 1" = 120'
CHECKED M.T.M. 1' CONTOURS

MOULDING & SONS
CLASS VI LANDFILL

FINAL CLOSURE

SHEET:
2
OF 2 SHEETS

APPENDIX B DOCUMENTS

Moulding Investments L.L.C.
910 West 21st Street
Ogden, UT 84401

January 14, 2004

Moulding & Sons
910 West 21st Street
Ogden, UT 84401

Subject: Letter Agreement

The purpose of this letter is to define an agreement between Moulding Investments L.L.C. and Moulding & Sons Construction, a Corporation doing business in Utah, regarding the use of certain properties located in Weber County Utah.

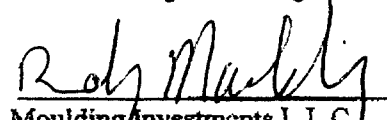
It is understood and acknowledged that Moulding Investments L.L.C. owns the following properties in Weber County, Utah.

Property Serial Number	Size (acres)
14-012-0001	6.73
14-012-0003	7.24
14-100-0020	9.93

Moulding Investments L.L.C. does herewith grant to Moulding & Sons Construction exclusive rights to use the properties listed above for the following purposes: 1) Processing, storage, and disposal of waste materials consisting of construction/demolition waste, yard waste, and other inert waste; and 2) Construction and operation of all facilities necessary to operate a Class VI Landfill in accordance with the applicable laws of the State of Utah.

Moulding & Sons Construction does hereby warrant that the use of these properties is in accordance with local, state and federal laws and will hold Moulding Investments L.L.C. harmless for any claims arising from their use of these properties. Moulding & Sons Construction agrees to pay Moulding Investments L.L.C. a fee of \$10,000 per year for the use of these properties as described above.

The terms of this agreement are from January 1, 2004, for a period of six years, with the understanding that the agreement may be renegotiated at the end of the six year period.


Moulding Investments L.L.C.

1-14-04
Date


Moulding & Sons Construction

1-14-04
Date



Weber County, Utah

2380 Washington Blvd Ogden, UT 84401

Parcel Information

Serial Number 12 -102 -0013

Ownership Information

Owner MOULDING AND SONS CONSTRUCTION *

Property Address

Mailing Address 910 W 21ST ST
OGDEN UT 84401
Tax Unit 362

Description Land	Year Built	Size
		9.23 Acres

Tax Information

Tax Year 2003

BE AWARE: The tax information on this page, including the "Balance" due amount reflects the status of this land serial number at the end of the tax year listed above. Each tax year's information is kept the same or "frozen" to help illustrate what the status of the taxes were at the end of that particular tax year. Payments on any "balance" due or delinquency amounts will show on the delinquency screens. *Ownership info is also shown for the tax year listed above, to view current owner information please use the [Geo-Gizmo](#).

NOTICE: All tax information for the current year will be completely posted by mid-October. Before mid-October though, the current year tax page will reflect some tax information as it becomes available during the year.

Loan Company: None

Today's Date: 11/14/2003

Market	Taxable	Rate
\$69,779.00	\$69,779.00	x 0.012377
Net Assessment Charge		\$863.65
Total Direct		\$0.00
Penalty Charge		\$0.00
Sub Total		\$863.65
Total Payments		\$0.00
Balance		\$863.65

Property Values

Clsf	Property Type	Taxable	Market
030	COMMERCIAL LAND	\$69,779.00	\$69,779.00
Total Values:		\$69,779.00	\$69,779.00

Direct Charges

Type	Description	Amount
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Payments

Pay Date	Ein	Run	Rec#	L#	Received From	Amount	Status
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Legal Description

Description Date/Year: 7/17/1991 1991

PART OF THE SOUTHWEST QUARTER OF SECTION 19, TOWNSHIP 6 NORTH, RANGE 1 WEST, SALT LAKE BASE AND MERIDIAN, U.S. SURVEY: BEGINNING AT A POINT ON THE SECTION LINE; SAID POINT BEING BEING SOUTH 89D32' WEST 170 FEET, MORE OR LESS, TO THE SOUTH BANK OF THE OGDEN RIVER, THENCE 13 COURSES ALONG SAID RIVER AS FOLLOWS: NORTH 66D16'17" WEST 160 FEET, MORE OR LESS, NORTH 55D09'27" WEST 46.12 FEET, NORTH 89D22'58" WEST 188.59 FEET, SOUTH 70D21'20" WEST 71.10 FEET, NORTH 53D35'21" WEST 155.18 FEET, NORTH 46D05'02" WEST 142.82 FEET, NORTH 69D53'26" WEST 79.38 FEET, NORTH 84D38'57" WEST 75.07 FEET, NORTH 69D57'55" WEST 229.01 FEET, NORTH 64D13'44" WEST 66.05 FEET, NORTH 43D02'17" WEST 258.85 FEET, NORTH 81D59'08" WEST 76.24 FEET AND SOUTH 45D06'39" WEST 172.69 FEET, THENCE 5 COURSES ALONG THE EAST BANK OF THE WEBER RIVER AS FOLLOWS: SOUTH 12D55'36" EAST 145.95 FEET, SOUTH 36D03'28" EAST 100.14 FEET, SOUTH 20D56'08" EAST 82.74 FEET, SOUTH 42D31'42" EAST 206.46 FEET; SOUTH 28D07'21" EAST 50 FEET, MORE OR LESS, TO THE SECTION LINE, THENCE EAST ALONG SAID SECTION LINE TO THE POINT OF BEGINNING.

TOGETHER WITH A RIGHT-OF-WAY DESCRIBED AS FOLLOWS: PART OF THE SOUTHWEST QUARTER OF SECTION 19, AND PART OF THE NORTHWEST QUARTER OF SECTION 30, TOWNSHIP 6 NORTH, RANGE 1 WEST, SALT LAKE MERIDIAN, U.S. SURVEY: BEGINNING AT A POINT WHICH IS SOUTH 89D32' WEST 107.58 FEET ALONG THE SECTION LINE AND SOUTH 12D51' WEST 296.67 FEET AND SOUTH 21D59' WEST 80.85 FEET FROM THE QUARTER CORNER COMMON TO SAID SECTIONS 19 AND 30; RUNNING THENCE NORTH 61D17'30" WEST 1521.37 FEET; THENCE SOUTH 6D45'11" WEST 25.88 FEET; THENCE SOUTH 61D17'30" EAST 1521.34 FEET THENCE NORTH 6D50' EAST 25.86 FEET TO THE POINT OF BEGINNING.

SUBJECT TO A 50 FOOT RIGHT OF WAY DESCRIBED AS FOLLOWS: A LEGAL DESCRIPTION FOR THE PURPOSE OF CREATING A 50 FOOT WIDE EASEMENT LYING ON THE EAST AND SOUTHERLY SIDE AND PARALLEL TO THE FOLLOWING DESCRIBED LINE: A PART OF THE NORTHWEST QUARTER OF SECTION 30 AND THE SOUTHWEST QUARTER OF SECTION 19, TOWNSHIP 6 NORTH, RANGE 1 WEST, SALT LAKE BASE AND MERIDIAN. BASIS OF BEARINGS IS STATE PLANE GRID BEARING OF SOUTH 01D28'19" WEST ALONG THE WEST LINE OF THE NORTHWEST QUARTER OF SAID SECTION 30, AS MONUMENTED. BEGINNING AT A POINT THAT BEARS SOUTH 01D28'19" WEST 686.58 FEET ALONG SECTION LINE AND SOUTH 85D07'24" EAST 1298.06 FEET TO THE EAST

BANK OF THE WEBER RIVER FROM THE NORTHWEST CORNER OF SAID SECTION AND RUNNING THENCE TWENTY FOUR COURSES ALONG SAID EAST RIVER BANK AND THE SOUTHERLY BANK OF THE OGDEN RIVER AS FOLLOWS: NORTH 19D05'26" EAST 98.71 FEET, NORTH 8D42'35" EAST 181.27 FEET, NORTH 01D42'31" EAST 74.42 FEET, NORTH 16D11'13" EAST 186.16 FEET, NORTH 5D06'58" EAST 235.30 FEET, NORTH 28D07'21" WEST 110.56 FEET, NORTH 42D31'42" WEST 206.46 FEET, NORTH 20D56'08" WEST 82.74 FEET, NORTH 36D03'28" WEST 100.14 FEET, NORTH 12D55'36" WEST 145.95 FEET, NORTH 45D06'39" EAST 172.69 FEET, SOUTH 81D59'08" EAST 76.24 FEET, SOUTH 43D02'17" EAST 258.85 FEET, SOUTH 64D13'44" EAST 66.05 FEET, SOUTH 69D57'55" EAST 229.01 FEET, SOUTH 84D38'57" EAST 75.07 FEET, SOUTH 69D53'26" EAST 79.38 FEET, SOUTH 46D05'02" EAST 142.82 FEET SOUTH 53D35'21" EAST 155.18 FEET, NORTH 70D21'20" EAST 71.10 FEET, SOUTH 89D22'58" EAST 188.59 FEET, SOUTH 55D09'27" EAST 46.12 FEET, SOUTH 66D16'17" EAST 195.03 FEET AND SOUTH 41D08'55" EAST 18.48 FEET TO THE EAST LINE OF BOYD PARKE PROPERTY. (1601-1695)



Weber County, Utah

2380 Washington Blvd Ogden, UT 84401

Parcel Information

Serial Number 14 -012 -0001

Ownership Information

MOULDING INVESTMENTS LLC

910 W 21ST

OGDEN UT 84401

Property Address

Tax Unit 277

Description
Land

Year Built

Size
6.73 Acres

Tax Information

Tax Year 2003

BE AWARE: The tax information on this page, including the "Balance" due amount reflects the status of this land serial number at the end of the tax year listed above. Each tax year's information is kept the same or "frozen" to help illustrate what the status of the taxes were at the end of that particular tax year. Payments on any "balance" due or delinquency amounts will show on the delinquency screens.

NOTICE: All tax information for the current year will be completely posted by mid-October. Before mid-October though, the current year tax page will reflect some tax information as it becomes available during the year.

Loan Company: None

Today's Date: 11/14/2003

Market	Taxable	Rate
\$109,026.00	\$109,026.00	x 0.012377
Net Assessment Charge		\$1,349.41
Total Direct		\$0.00
Penalty Charge		\$0.00
Sub Total		\$1,349.41
Total Payments		\$0.00
Balance		\$1,349.41

Property Values

Clasf	Property Type	Taxable	Market
030	COMMERCIAL LAND	\$109,026.00	\$109,026.00
Total Values:		\$109,026.00	\$109,026.00

Direct Charges

Type	Description	Amount
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Payments

Pay Date	Ein	Run	Rec#	L#	Received From	Amount	Status
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Legal Description

Description Date/Year: 10/8/1980 1971

PART OF THE NORTHWEST QUARTER OF SECTION 30, TOWNSHIP 6 NORTH,
RANGE 1 WEST, SALT LAKE BASE AND MERIDIAN, U.S. SURVEY:

BEGINNING AT A POINT ON THE EAST LINE OF SAID QUARTER SECTION

14.98 CHAINS NORTH 1D25' EAST, WEST 5.36 CHAINS NORTH 0.962

CHAINS, SOUTH 66D47' EAST 0.638 CHAINS AND NORTH 6D50' EAST

FROM THE SOUTHEAST CORNER THEREOF; RUNNING THENCE NORTH 6D50'

EAST 1124.46 FEET; THENCE NORTH 21.59' EAST 1.255 CHAINS;

THENCE NORTH 12D51' EAST 4.495 CHAINS; THENCE EAST 1.63 CHAINS

TO THE NORTHEAST CORNER OF SAID QUARTER SECTION; THENCE SOUTH

1D26' WEST ALONG THE EAST LINE OF SAID QUARTER SECTION TO A

POINT NORTH 85D48'36.5" EAST FROM THE POINT OF BEGINNING;

THENCE SOUTH 85D48'36.5" WEST TO THE PLACE OF BEGINNING.

CONTAINING 6.73 ACRES, M/L.



Weber County, Utah

2380 Washington Blvd Ogden, UT 84401

Parcel Information

Serial Number 14 -012 -0002

Ownership Information

Owner MOULDING AND SONS CONSTRUCTION *

Property Address

Mailing Address 910 W 21ST ST
 OGDEN UT 84401
 Tax Unit 277

Description Land	Year Built	Size 21.37 Acres
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Tax Information

Tax Year 2003

BE AWARE: The tax information on this page, including the "Balance" due amount reflects the status of this land serial number at the end of the tax year listed above. Each tax year's information is kept the same or "frozen" to help illustrate what the status of the taxes were at the end of that particular tax year. Payments on any "balance" due or delinquency amounts will show on the delinquency screens. *Ownership info is also shown for the tax year listed above, to view current owner information please use the [Geo-Gizmo](#).

NOTICE: All tax information for the current year will be completely posted by mid-October. Before mid-October though, the current year tax page will reflect some tax information as it becomes available during the year.

Loan Company: None

Today's Date: 11/14/2003

Market	Taxable	Rate
\$346,194.00	\$346,194.00	x 0.012377
Net Assessment Charge		\$4,284.84
Total Direct		\$0.00
Penalty Charge		\$0.00
Sub Total		\$4,284.84
Total Payments		\$0.00
Balance		\$4,284.84

Property Values

Clasf	Property Type	Taxable	Market
03C	COMMERCIAL UNIMPROVED	\$346,194.00	\$346,194.00
Total Values:		\$346,194.00	\$346,194.00

Direct Charges

Type	Description	Amount
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Payments

Pay Date	Ein	Run	Rec#	L#	Received From	Amount	Status
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Legal Description

Description Date/Year: 7/17/1991 1991

PART OF THE NORTHWEST QUARTER OF SECTION 30, AND THE SOUTHWEST QUARTER OF SECTION 19, TOWNSHIP 6 NORTH, RANGE 1 WEST, SALT LAKE BASE AND MERIDIAN. BASIS OF BEARINGS IS STATE PLANE GRID BEARING OF SOUTH 01D28'19" WEST ALONG THE WEST LINE OF THE NORTHWEST QUARTER OF SECTION 30, AS MONUMENTED. BEGINNING AT A POINT THAT BEARS SOUTH 01D28'19" WEST 686.58 FEET ALONG SECTION LINE AND SOUTH 85D07'24" EAST 1874.51 FEET FROM THE NORTHWEST CORNER OF SAID SECTION AND RUNNING THENCE SOUTH 4D42'17" WEST 313.58 FEET TO A PROJECTION OF A FENCE FROM THE EAST, THENCE SOUTH 82D43'11" EAST 156.88 FEET TO AND ALONG SAID FENCE TO A FENCE INTERSECTION, THENCE NORTH 04D55'14" WEST 323.38 FEET ALONG AND BEYOND SAID FENCE, THENCE SOUTH 85D07'24" EAST 33.96 FEET, THENCE NORTH 24D29'51" EAST 245.67 FEET, THENCE NORTH 44D19'29" EAST 355.49 FEET TO A METAL T-POST, THENCE SOUTH 56D19'28" EAST 183.83 FEET TO A PROJECTION OF A FENCE FROM THE SOUTH, THENCE NORTH 07D40'32" EAST 127.78 FEET TO AND ALONG A FENCE, THENCE NORTH 19D31'59" EAST 91.26 FEET ALONG SAID FENCE, THENCE NORTH 14D26'13" EAST 285.18 FEET ALONG AND BEYOND SAID FENCE TO THE SOUTH BANK OF THE OGDEN RIVER, THENCE ALONG SAID SOUTH BANK OF RIVER AS FOLLOWS: NORTH 41D08'55" WEST 18.48 FEET, THENCE NORTH 66D16'17" WEST TO THE SECTION LINE, THENCE WEST ALONG THE SECTION LINE TO THE EAST BANK OF THE WEBER RIVER, THENCE SOUTH 28D07'21" EAST 55 FEET, MORE OR LESS, ALONG SAID RIVER, THENCE SOUTH 05D06'58" WEST 235.30 FEET, THENCE SOUTH 16D11'13" WEST 186.16 FEET, THENCE SOUTH 01D42'31" WEST 74.42 FEET, THENCE SOUTH 8D42'35" WEST 181.27 FEET, THENCE SOUTH 19D05'26" WEST 98.71 FEET TO A POINT THAT BEARS NORTH 85D07'24" WEST FROM THE POINT OF BEGINNING, THENCE SOUTH 85D07'24" EAST 576.45 FEET TO THE POINT OF BEGINNING. SUBJECT TO AND TOGETHER WITH A 50 FOOT RIGHT OF WAY DESCRIBED AS FOLLOWS: A LEGAL DESCRIPTON FOR THE PURPOSE OF CREATING A 50 FOOT WIDE EASEMENT LYING ON THE EAST AND SOUTHERLY SIDE AND PARALLEL TO THE FOLLOWING DESCRIBED LINE: A PART OF THE NORTHWEST QUARTER OF SECTION 30 AND THE SOUTHWEST QUARTER OF SECTION 19, TOWNSHIP 6 NORTH, RANGE 1 WEST, SALT LAKE BASE AND MERIDIAN. BASIS OF BEARINGS IS STATE PLANE GRID BEARING OF SOUTH 01D28'19" WEST ALONG THE WEST LINE OF THE NORTHWEST QUARTER OF SAID SECTION 30, AS MONUMENTED. BEGINNING AT A POINT THAT BEARS SOUTH 01D28'19" WEST 686.58 FEET ALONG SECTION LINE AND SOUTH 85D07'24" EAST

1298.06 FEET TO THE EAST BANK OF THE WEBER RIVER FROM THE NORTHWEST CORNER OF SAID SECTION AND RUNNING THENCE TWENTY FOUR COURSES ALONG SAID EAST RIVER BANK AND THE SOUTHERLY BANK OF THE OGDEN RIVER AS FOLLOWS: NORTH 19D05'26" EAST 98.71 FEET, NORTH 8D42'35" EAST 181.27 FEET, NORTH 01D42'31" EAST 74.42 FEET, NORTH 16D11'13" EAST 186.16 FEET, NORTH 5D06'58" EAST 235.30 FEET, NORTH 28D07'21" WEST 110.56 FEET, NORTH 42D31'42" WEST 206.46 FEET, NORTH 20D56'08" WEST 82.74 FEET, NORTH 36D03'28" WEST 100.14 FEET, NORTH 12D55'36" WEST 145.95 FEET, NORTH 45D06'39" EAST 172.69 FEET, SOUTH 81D59'08" EAST 76.24 FEET, SOUTH 43D02'17" EAST 258.85 FEET, SOUTH 64D13'44" EAST 66.05 FEET, SOUTH 69D57'55" EAST 229.01 FEET, SOUTH 84D38'57" EAST 75.07 FEET, SOUTH 69D53'26" EAST 79.38 FEET, SOUTH 46D05'02" EAST 142.82 FEET, SOUTH 53D35'21" EAST 155.18 FEET, NORTH 70D21'20" EAST 71.10 FEET, SOUTH 89D22'58" EAST 188.59 FEET, SOUTH 55D09'27" EAST 46.12 FEET, SOUTH 66D16'17" EAST 195.03 FEET AND SOUTH 41D08'55" EAST 18.48 FEET TO THE EAST LINE OF BOYD PARKE PROPERTY. (BOOK 1601, PAGE 1695).

TOGETHER WITH A 60 FOOT WIDE RIGHT OF WAY FOR THE PURPOSE OF INGRESS AND EGRESS LYING 60 FEET EAST AND PARALLEL TO THE FOLLOWING DESCRIBED LINE: BEGINNING AT A POINT THAT BEARS SOUTH 01D28'19" WEST 686.58 FEET ALONG SAID QUARTER SECTION LINE, SOUTH 85D07'24" EAST 1874.51 FEET AND SOUTH 04D42'17" WEST 313.58 FEET FROM THE NORTHWEST CORNER OF SAID SECTION 30, AND RUNNING THENCE SOUTH 04D42'17" WEST 216.23 FEET TO THE WEST SIDE OF AN EXISTING GATE. (BOOK 1603, PAGE 2470).

SUBJECT AND TOGETHER WITH A RIGHT OF WAY DESCRIBED AS FOLLOWS: A PART OF THE SOUTHWEST QUARTER OF SECTION 19 AND A PART OF THE NORTHWEST QUARTER OF SECTION 30, TOWNSHIP 6 NORTH, RANGE 1 WEST, SALT LAKE MERIDIAN, U.S. SURVEY: BEGINNING AT A POINT WHICH IS SOUTH 89D32' WEST 107.58 FEET, ALONG THE SECTION LINE AND SOUTH 12D51" WEST 296.67 FEET AND SOUTH 21D59' WEST 80.85 FEET FROM THE QUARTER CORNER COMMON TO SAID SECTIONS 19 AND 30, AND RUNNING THENCE NORTH 61D17'30" WEST 1521.37 FEET, THENCE SOUTH 6D45'11" WEST 25.88 FEET; THENCE SOUTH 61D17'30" EAST 1521.34 FEET; THENCE NORTH 6D50' EAST 25.86 FEET TO THE POINT OF BEGINNING. (BOOK 1603, PAGE 2468).



Weber County, Utah
2380 Washington Blvd Ogden, UT 84401

Parcel Information

Serial Number 14 -012 -0003

Ownership Information

MOULDING INVESTMENTS LLC

910 W 21ST ST
OGDEN UT 84401

Property Address

724 W 2100 S
OGDEN UT 84401

Tax Unit 277

Description	Year Built	Size
Land		7.24 Acres

Tax Information

Tax Year 2003

BE AWARE: The tax information on this page, including the "Balance" due amount reflects the status of this land serial number at the end of the tax year listed above. Each tax year's information is kept the same or "frozen" to help illustrate what the status of the taxes were at the end of that particular tax year. Payments on any "balance" due or delinquency amounts will show on the delinquency screens.

NOTICE: All tax information for the current year will be completely posted by mid-October. Before mid-October though, the current year tax page will reflect some tax information as it becomes available during the year.

Loan Company: None

Today's Date: 11/14/2003

Market	Taxable	Rate
\$117,288.00	\$117,288.00	x 0.012377
Net Assessment Charge		\$1,451.67
Total Direct		\$0.00
Penalty Charge		\$0.00
Sub Total		\$1,451.67
Total Payments		\$0.00
Balance		\$1,451.67

Property Values

Clasf	Property Type	Taxable	Market
030	COMMERCIAL LAND	\$117,288.00	\$117,288.00
Total Values:		\$117,288.00	\$117,288.00

Direct Charges

Type	Description	Amount
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Payments

Pay Date	Ein	Run	Rec#	L#	Received From	Amount	Status
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Legal Description

Description Date/Year: 9/5/1991 1991

PART OF THE NORTHWEST QUARTER OF SECTION 30, TOWNSHIP 6 NORTH,
RANGE 1 WEST, SALT LAKE BASE AND MERIDIAN, U.S. SURVEY:

BEGINNING 996.6 FEET SOUTH AND 965.58 FEET EAST AND SOUTH
17D37' EAST 56.72 FEET AND SOUTH 83D30' EAST 1000 FEET, MORE
OR LESS, OF THE NORTHWEST CORNER OF SAID QUARTER SECTION;
RUNNING THENCE SOUTH 83D30' EAST 442.33 FEET; THENCE NORTH
6D50' EAST 755.7 FEET; THENCE NORTH 56D19'28" WEST 183.83 FEET
THENCE SOUTH 44D19'29" WEST 355.49 FEET, THENCE SOUTH
24D29'51" WEST 245.67 FEET, THENCE NORTH 85D07'24" WEST 33.96
FEET, THENCE SOUTH 04D55'14" EAST 323.38 FEET TO THE PLACE
OF BEGINNING.



Weber County, Utah

2380 Washington Blvd Ogden, UT 84401

Parcel Information

Serial Number 14 -012 -0006

Ownership Information

MOLDING AND SONS CONSTRUCTION

910 W 21ST ST
OGDEN UT 84401

Property Address

724 21ST
OGDEN UT 84401

Tax Unit 277

Description Land	Year Built	Size 4.07 Acres
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Tax Information

Tax Year 2003

BE AWARE: The tax information on this page, including the "Balance" due amount reflects the status of this land serial number at the end of the tax year listed above. Each tax year's information is kept the same or "frozen" to help illustrate what the status of the taxes were at the end of that particular tax year. Payments on any "balance" due or delinquency amounts will show on the delinquency screens.

NOTICE: All tax information for the current year will be completely posted by mid-October. Before mid-October though, the current year tax page will reflect some tax information as it becomes available during the year.

Loan Company: None

Today's Date: 11/14/2003

Market	Taxable	Rate
\$65,934.00	\$65,934.00	x 0.012377
Net Assessment Charge		\$816.07
Total Direct		\$0.00
Penalty Charge		\$0.00
Sub Total		\$816.07
Total Payments		\$0.00
Balance		\$816.07

Property Values

Clasf	Property Type	Taxable	Market
030	COMMERCIAL LAND	\$65,934.00	\$65,934.00
Total Values:		\$65,934.00	\$65,934.00

Direct Charges

Type	Description	Amount
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Payments

Pay Date	Ein	Run	Rec#	L#	Received From	Amount	Status
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Legal Description

Description Date/Year: 11/9/1993 1993

PART OF THE NORTHWEST QUARTER OF SECTION 30, TOWNSHIP 6 NORTH, RANGE 1 WEST, SALT LAKE BASE AND MERIDIAN: BASIS OF BEARINGS IS STATE PLANE GRID OF SOUTH 01D28'19" WEST ALONG THE WEST LINE OF THE NORTHWEST QUARTER OF SECTION 30, AS MONUMENTED. BEGINNING AT A POINT THAT BEARS SOUTH 01D28'19" WEST 686.58 FEET ALONG SECTION LINE, SOUTH 85D07'24" EAST 1874.51 FEET AND SOUTH 04D42'17" WEST 313.58 FEET FROM THE NORTHWEST CORNER OF SAID SECTION AND RUNNING THENCE FOUR COURSES ALONG A FENCE LINE AS FOLLOWS SOUTH 82D43'11" EAST 170.16 FEET, SOUTH 83D45'19" EAST 47.33 FEET, SOUTH 82D52'38" EAST 139.90 FEET AND SOUTH 82D36'50" EAST 218.44 FEET ALONG AND BEYOND SAID FENCE TO A PROJECTION OF A FENCE FROM THE NORTH, THENCE SOUTH 06D27'50" WEST ALONG THE PROJECTION OF A FENCE FROM THE NORTH 273.06 FEET, MORE OR LESS, TO THE NORTH RIGHT-OF-WAY LINE OF 21ST ST. EXPRESSWAY, THENCE FOUR COURSES ALONG SAID RIGHT-OF-WAY AS FOLLOWS: SOUTH 85D43'26" WEST 41.41 FEET (SOUTH 85D48'37" WEST 42 FEET, MORE OR LESS), THENCE SOUTH 88D28'35" WEST (SOUTH 88D33'46" WEST) 416.48 FEET, THENCE 25D22'25" WEST 51.46 FEET, MORE OR LESS, (SOUTH 25D27'36" WEST 50 FEET, MORE OR LESS,) AND NORTH 22D43'11" WEST (NORTH 22D38' WEST) 203.67 FEET, MORE OR LESS, TO A POINT WHICH BEARS SOUTH 04D42'17" WEST OF THE POINT OF BEGINNING, THENCE NORTH 04D42'17" EAST 216.99 FEET TO THE POINT OF BEGINNING.
CONTAINING 4.07 ACRES, MORE OR LESS.



Weber County, Utah

2380 Washington Blvd Ogden, UT 84401

Parcel Information

Serial Number 14 -010 -0020

Ownership Information

MOULDING INVESTMENTS LLC

910 W 21ST
OGDEN UT 84401

Property Address

Tax Unit 25

Description	Year Built	Size
Land		9.93 Acres

Tax Information

Tax Year 2003

BE AWARE: The tax information on this page, including the "Balance" due amount reflects the status of this land serial number at the end of the tax year listed above. Each tax year's information is kept the same or "frozen" to help illustrate what the status of the taxes were at the end of that particular tax year. Payments on any "balance" due or delinquency amounts will show on the delinquency screens.

NOTICE: All tax information for the current year will be completely posted by mid-October. Before mid-October though, the current year tax page will reflect some tax information as it becomes available during the year.

Loan Company: None

Today's Date: 11/14/2003

Market	Taxable	Rate
\$148,950.00	\$148,950.00	x 0.016117
Net Assessment Charge		\$2,400.63
Total Direct		\$0.00
Penalty Charge		\$0.00
Sub Total		\$2,400.63
Total Payments		\$0.00
Balance		\$2,400.63

Property Values

Clsf	Property Type	Taxable	Market
020	RESIDENTIAL LAND - NON-PRIMARY	\$148,950.00	\$148,950.00
Total Values:		\$148,950.00	\$148,950.00

Direct Charges

Type	Description	Amount
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Payments

Pay Date	Ein	Run	Rec#	L#	Received From	Amount	Status
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Legal Description

Description Date/Year: 10/8/1980 1971

PART OF THE NORTHEAST QUARTER OF SECTION 30, TOWNSHIP 6 NORTH,
RANGE 1 WEST, SALT LAKE BASE AND MERIDIAN, U.S. SURVEY:

BEGINNING AT NORTHWEST CORNER OF NORTHEAST QUARTER OF
SECTION 30; THENCE SOUTH 1D26' WEST TO THE NORTH LINE OF THE
PROPERTY CONVEYED TO THE STATE ROAD COMMISSION BY WARRANTY
DEED RECORDED IN BOOK 975 PAGE 365; THENCE NORTH 85D48'36.5"
EAST 165 FEET; THENCE NORTH 0D31' WEST 481.98 FEET; THENCE
SOUTH 88D EAST 4.65 CHAINS; THENCE NORTH 3D45' WEST 8.32
CHAINS; THENCE NORTH 3D45' EAST 2.17 CHAINS TO OGDEN RIVER;
THENCE NORTHWESTERLY ALONG SAID RIVER TO A POINT 2.15 CHAINS
EAST OF BEGINNING; THENCE WEST 2.15 CHAINS TO BEGINNING.

CONTAINING 9.93 ACRES, M/L.

UTAH SOLID AND HAZARDOUS WASTE CONTROL BOARD

SOLID WASTE PERMIT

CLASS V LANDFILL

Pursuant to the provisions of the *Utah Solid and Hazardous Waste Act*, Title 19, Chapter 6, Utah Code Annotated (UCA) 1953, as amended (the Act) and the *Utah Solid Waste Permitting and Management Rules*, Utah Administrative Code (UAC) R315-301 through 320 (the Solid Waste Rules) adopted thereunder,

Moulding and Sons Sand and Gravel

is hereby authorized to operate the **Moulding and Sons Class V Construction/Demolition Landfill** located at 910 West 21st Street Ogden, Weber County, Utah as specifically described and shown in the permit application.

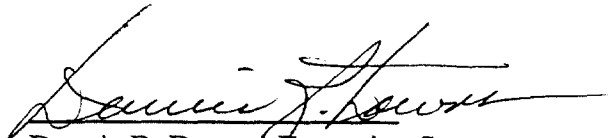
The operation of the landfill is subject to the condition that Moulding and Sons (the Permittee) meet the requirements set forth herein.

All references to UAC R315-301 through 320 are to regulations that are in effect on the date that this permit becomes effective.

This permit shall become effective 1 March 1999.

This permit shall expire at midnight 28 February 2004.

Signed this 8th day of February, 1999.



Dennis R. Downs, Executive Secretary
Utah Solid and Hazardous Waste Control Board

Solid Waste Permitting and Management
Closure and Post-Closure Care Bond
Utah Administrative Code R315-309-2(4)

Bond Amount \$ 124,242.00Bond No. 156 44 89

KNOWN BY THESE PRESENTS:

That we, Moulding & Sons Sand & Gravel (Principal)of the County of Weber State of Utahas principal and Insurance Company of the West (Surety)

as a corporation, duly organized and doing business under and by virtue of the laws of the State of California and authorized to do business in the State of Utah, and duly licensed for the purpose of making, guaranteeing, and becoming surety upon bonds required or authorized by the laws of the State of Utah, as surety, and held and firmly bound unto the State of Utah, Solid and Hazardous Waste Control Board, 288 North 1460 West, Salt Lake City, Utah 84114-4880, in the sum of \$124,242.00, lawful money of the United States of America, for the payment whereof well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

The Condition of the foregoing obligation is such that,

WHEREAS, the above named Principal has made application to the State of Utah, Solid and Hazardous Waste Control Board for the issuance of a permit to operate a Class IVb Landfill under the authority of the State of Utah Solid and Hazardous Waste Act; and

WHEREAS, the Utah Solid and Hazardous Waste Control Board, with authority, has enacted rules, Utah Administrative Code (UAC) R315-301 through 320, regulating the operation of landfills,

WHEREAS, under the terms of said rules a cash or corporate surety bond in the sum of \$124,242.00 is required of said Principal and a responsible surety as financial assurance for closure and post-closure care costs of said landfill payable to a standby trust as specified hereafter. Said bond is conditioned upon the faithful and proper compliance with all of the terms, conditions, provisions, requirements, and specifications of landfill closure and post-closure care contained in said landfill permit, UAC R315-302-2, and UAC R315-305-5(5), not to exceed the bond penalty amount hereof.

Now, therefore, if the above bound principal shall fully comply with the above stated provisions for closure and post-closure care of said Class IVb Landfill, then this obligation shall be null and void, otherwise to remain in full force and effect.

05-13-98

11:26

0941 155 0717

11:26 AM

11:26 AM

This bond may be increased by rules or other means of the surety to equal the amount as established by the annual up-date of the cost estimates for closure and post-closure care as required by UAC R313-309-2(b) and (4) for said Class IV Landfill.

The duration of this bond shall be from the time same is filed with the State of Utah until such time as the State of Utah may cancel the same or release the Surety from all liability.

The Surety may cancel this bond by giving the State of Utah 120 days written notice addressed to the State of Utah, Solid and Hazardous Waste Control Board. Upon cancellation of this bond, the State of Utah shall release the Surety from all liability.

In the event of default by the Principal of any of the provisions and conditions of closure and post-closure care of said Class IV Landfill, the Principal shall establish a Standby Trust in accordance with UAC R313-309-2(b)(1) and (4)(D). The Surety shall deposit the penal amount of this bond into the Trust. Upon the establishment and funding of the Trust, not to exceed the penal amount of this bond, this obligation of the Surety shall terminate.

IN WITNESS WHEREOF, the above burden parties have executed this instrument under their several hands and seals this 10th day of February 1999 the name and corporate seal of each corporate party being hereto affixed and these presents duly signed by its undersigned representative, pursuant to authority of its governing body.

(Seal)

Moulding & Sons
Sand & Gravel (Principal)

by Ruf Moulding Title President

(Seal)

Insurance Company of the West (Surety)

by Gayle Wood Attorney-in-Fact
Gayle Wood

State of Utah

County of Salt Lake

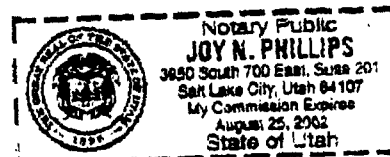
On this 10th day of February 1999 appeared before me
Gayle Wood Attorney-in-fact (Title) of
Insurance Company of the West who acknowledges to me he/she executed the
same on behalf of Insurance Company of the West

(Notary Seal)

Joy N. Phillips Notary Public

My Commission Expires 8/25/02

Note: The person signing for the Surety shall attach a certified copy of the power of attorney form to this instrument.



The Explorer Insurance Company
HOME OFFICE: SAN DIEGO, CALIFORNIA

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS: That THE EXPLORER INSURANCE COMPANY, an Arizona Corporation, does hereby appoint:

CRAIG B. HURST, GAYLE WOOD

its true and lawful Attorney(s)-in-Fact, with full power and authority, to execute, on behalf of the Company, fidelity and surety bonds, undertakings, and other contracts of suretyship of a similar nature.

This Power of Attorney is granted and is signed and sealed by facsimile under the authority of the following Resolution adopted by the Board of Directors on the 23rd day of February, 1998, which said Resolution has not been amended or rescinded and of which the following is a true copy:

"RESOLVED, that the Chairman of the Board, the President, an Executive Vice President or a Senior Vice President of the Company, and each of them, is hereby authorized to execute Powers of Attorney qualifying the attorney named in the given Power of Attorney to execute on behalf of the Company, fidelity and surety bonds, undertakings, or other contracts of suretyship of a similar nature; and to attach thereto the seal of the Company, provided however, that the absence of the seal shall not affect the validity of the instrument

FURTHER RESOLVED, that the signatures of such officers and the seal of the Company, and the signatures of any witnesses, the signatures and seal of any notary, and the signatures of any officers certifying the validity of the Power of Attorney may be affixed by facsimile."

IN WITNESS WHEREOF, THE EXPLORER INSURANCE COMPANY has caused these presents to be signed by its duly authorized officer this 25th day of June 1998.

THE EXPLORER INSURANCE COMPANY



STATE OF CALIFORNIA

SS.

COUNTY OF SAN DIEGO


John L. Hannum, Executive Vice President

IN WITNESS WHEREOF, the undersigned certify that they are adults, and have witnessed the signing of this instrument by the principal or have witnessed the principal's acknowledgment of the signature on the power of attorney, pursuant to California Probate Code §4121 and 4122.


Jerry Fafaul


Janis Theodore

CERTIFICATE:

I, John H. Craig, Assistant Secretary of THE EXPLORER INSURANCE COMPANY, do hereby certify that the original POWER OF ATTORNEY, of which the foregoing is a true copy, is still in full force and effect, and that this certificate may be signed by facsimile under the authority of the above quoted resolution.

IN WITNESS WHEREOF, I have subscribed my name as Assistant Secretary, on this 10th day of February 19 99.

THE EXPLORER INSURANCE COMPANY




John H. Craig, Assistant Secretary

APPENDIX C FORMS

MOULDING & SONS SAND & GRAVEL
CLASS VI LANDFILL

INSPECTION REPORT

DATE: _____

INSPECTOR: _____

	Satisfactory	Unsatisfactory
• Water Run-on/Run-off:	_____	_____
• Fence Lines/Gates	_____	_____
• Waste Handling	_____	_____

Corrective Action(s) Required:

Date Corrective Action Completed: _____

Comments:

Signature: _____

[illegible][illegible]

RANDOM RECORD INSPECTION FORM

[illegible]

APPENDIX D
STORM WATER RUNOFF CALCULATIONS



PROJECT Moulding Landfill SHEET NO. 1 OF 3
DESCRIPTION Fermit Renewal PROJECT NO. _____
CALC. BY JDB DATE 11/26/03 CHKD. BY _____ DATE _____

- Calculate the runoff volume for the 25-yr, 24-hr storm event using the NRCS Curve Number methodology.

Precipitation

Reference: Estimated Return Periods for Short-Duration Precipitation in Utah, Utah State 1971.

25-yr, 24-hr $\Rightarrow P = 2.59$ inches

Curve Number

Reference: Urban Hydrology for Small Watersheds, TR-55, June 1986.

- Native soil at the landfill is Hydrologic Soil Groups (HSG) A. Soils brought to the site as waste will likely be HSG A and HSG B because these soils are the most commonly used soil types for construction.

Use HSG B for the site

- Assume bare soil conditions for the active landfill
Active Landfill $\Rightarrow CN = 86$

- Assume "Good" vegetation cover for the final closure.

Final Closure $\Rightarrow CN = 62$



PROJECT Moulding Landfill SHEET NO. 2 OF 3

DESCRIPTION Landfill Permit Renewal PROJECT NO. _____

CALC. BY JDB DATE 11/26/03 CHKD. BY _____ DATE _____

NRCS Curve No. Method

$$Q = \frac{(P - 0.2S)^2}{(P + 0.8S)} \quad S = \frac{1000}{CN} - 10$$

where P = rainfall (inch)
 Q = runoff (inch)

S = potential maximum retention after runoff begins (inch)

Runoff for Active Landfill

$$CN = 86 \quad S = \frac{1000}{86} - 10 = 1.628 \text{ in}$$

$$25\text{-yr} \Rightarrow Q = \frac{(2.59 - 0.2(1.628))^2}{(2.59 + 0.8(1.628))} = 1.32 \text{ in}$$

Runoff volume if the entire site is bare soil
Volume = 58 acres $(1.32/12 \text{ ft})$ = 6.4 ac-ft

Runoff volume per acre

$$\text{Volume} = (1 \text{ acre}) (1.32/12 \text{ ft}) = 0.11 \text{ ac-ft}$$



PROJECT Modding Landfill SHEET NO. 3 OF 3
DESCRIPTION Landfill Permit Renewal PROJECT NO. _____
CALC. BY JNB DATE 11/26/03 CHKD. BY _____ DATE _____

Runoff from Landfill Final

$$CN = 62 \quad S = \frac{1000}{62} - 10 = 6.129 \text{ in}$$

$$25\text{-yr} \Rightarrow Q = \frac{(2.59 - 0.2(6.129))^2}{(2.59 + 0.8(6.129))} = 0.25 \text{ in}$$

- Runoff volume at completed final cover

$$\text{Volume} = (58 \text{ acres})(0.25/12 \text{ ft}) = 1.2 \text{ ac-ft}$$

- Runoff volume per acre

$$\text{Volume} = (1 \text{ acre})(0.25/12 \text{ ft}) = 0.021 \text{ ac-ft/ac}$$

